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JULY

# TEXAS ARCHITECT

OFFICIAL PUBLICATION OF THE TEXAS SOCIETY OF ARCHITECTS

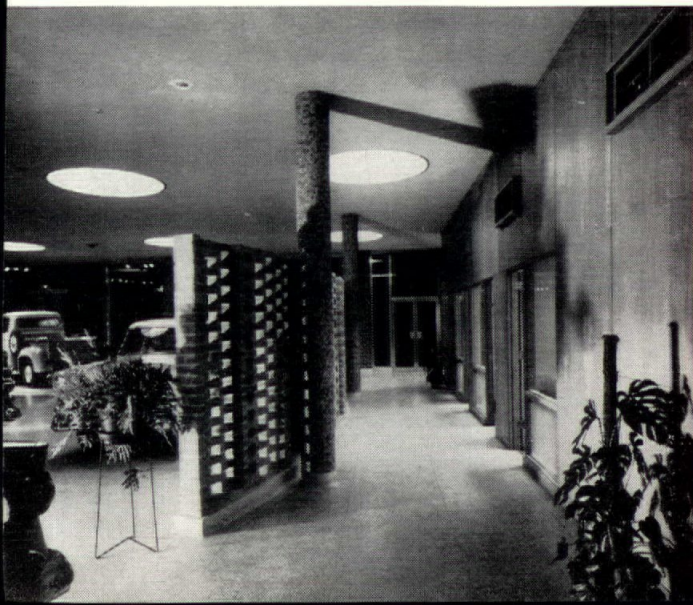
AMERICAN INSTITUTE  
OF  
ARCHITECTS

AUG 5 1957

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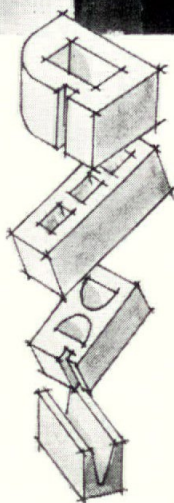
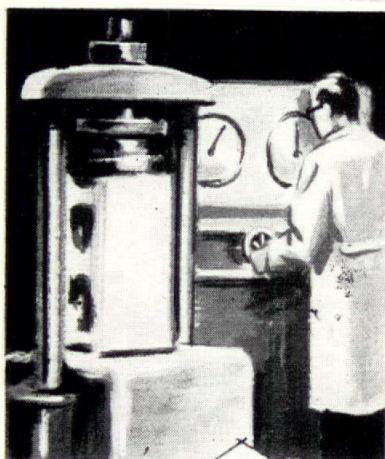


The Jordan Motor Company's facility for new car sales and service, in San Antonio, has been selected by the San Antonio Chapter, AIA, as representative of recent architectural work in the Chapter area. Architect: Jerry Rogers, TSA-AIA, San Antonio.





# They used to call it "Concrete Block"



Well, we still call it concrete block, but it's not the same at all. From the old handmade block has come a wide variety of modern concrete masonry units manufactured under precision control. The newest, most versatile building materials, their popularity is sweeping the country. In fact, more than two-thirds of all masonry walls going up are being built of concrete masonry.

From a one time backyard operation has grown a multi-million dollar industry, supplying Texas builders with the highest quality of concrete masonry units in a wide variety of shapes, sizes, textures and color.

TCMA is dedicated to quality and service. An association of prominent concrete masonry producers, its purpose is to maintain the highest possible standards of quality through scientific research and engineering control standards.

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**TCMA**  
TEXAS CONCRETE MASONRY ASSOCIATION



Official Publication of  
THE TEXAS SOCIETY OF ARCHITECTS

The Texas Regional Organization of The American Institute of Architects

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## Military Construction Survey

By resolution, the centennial convention of the American Institute of Architects in Washington authorized a national survey of the experience of AIA members engaged in military construction work, so that all practitioners may benefit by the experience of others.

This important resolution is most certainly in the public interest, with a healthy slice of the huge, multi-billion-dollar military budget destined for Armed Forces construction. A pooling of the experience of hundreds of architects across the U.S. will undoubtedly result in stepped-up efficiency in dealing with military construction agencies, in publicizing savings brought about by sound architectural design and practice, and in economies for all concerned. Since we are all taxpayers—architects, government employees, and Armed Forces officials alike—everyone should benefit.

With the heavy emphasis on economy which is revealed in the continuing thousands of letters from constituents to their Congressmen, this AIA resolution should in particular strike a responsive chord among the general public at this time.

## The President's Letter

By  
Fred J. MacKie  
TSA-AIA

President,  
Texas Society  
of Architects



One of my more pleasant duties recently as president of TSA was attending the ninth annual Craftsmanship Award Dinner of the Fort Worth Chapter, at which it was my honor to present a golden pin to Mr. L. B. Bounds, Jr., electrician.

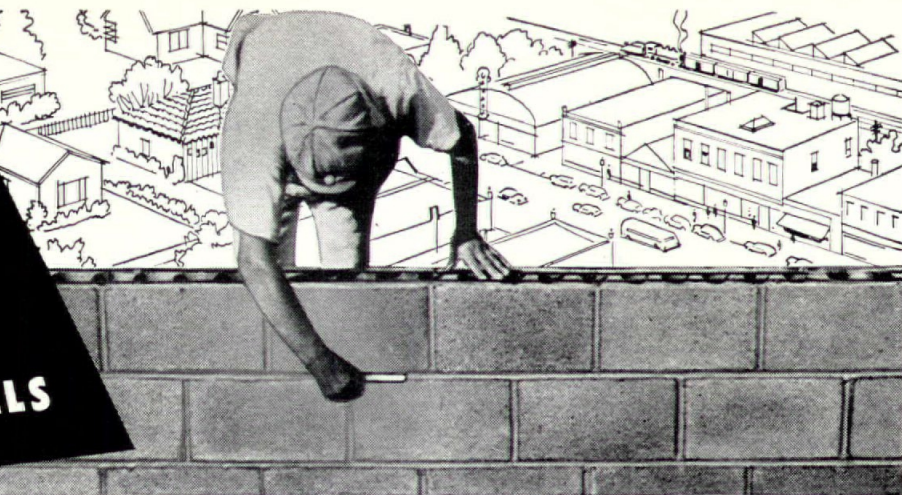
At the dinner, held May 28 at the Rivercrest Country Club, the Fort Worth Chapter honored Mr. Bounds for his outstanding craftsmanship, long recognized by his fellow workers, by architects and other professional practitioners within the construction industry, and by owners and employers.

The growing trend toward awards for craftsmanship, now well established in many of the 13 TSA Chapters, is a fine and meaningful thing. In an era of ever-accelerated technological progress we tend to forget the great importance of the individual worker who knows his craft and practices it with pride and care. The inevitable result could well be a long-time deterioration of standards of quality. When we emphasize and compliment craftsmanship, however, we do much to preserve pride in workmanship and good performance in every area of endeavor, from the professional level through that of master craftsman, mechanic, apprentice, laborer, or whatever.

R. Max Brooks, TSA-FAIA of Austin, emphasized these matters in his remarks on craftsmanship at the Fort Worth affair, which were very well received by the audience. Another significant point was brought out, I thought, by Hubert H. Crane, TSA-AIA of Fort Worth Chapter. Mr. Crane found that in every case the recipient of the Craftsmanship Award has been not only a fine craftsman but an outstanding citizen and individual.

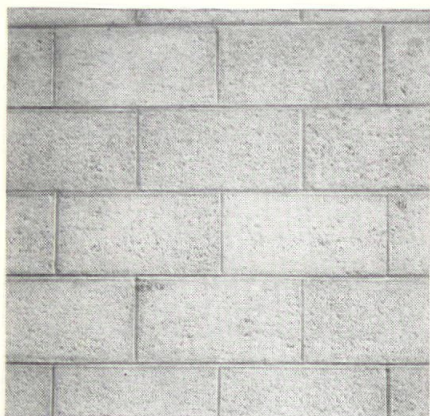


# How to build distinctive appearance into CONCRETE MASONRY WALLS

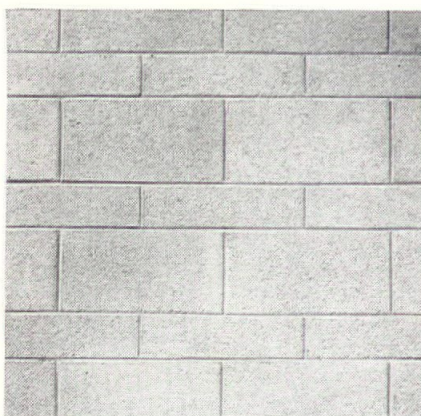


More contractors, builders, owners and investors are learning that concrete masonry can have *distinctive appearance* along with outstanding durability, firesafety and **low annual cost**. You add beauty by using a choice of pleasing wall patterns.

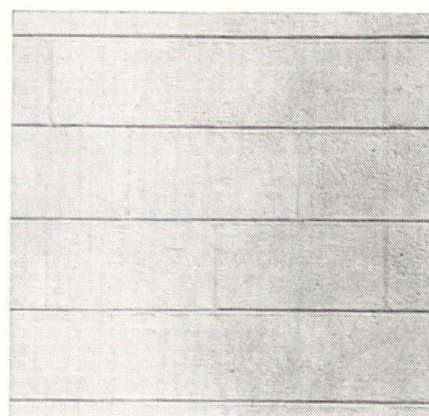
Shown below are six popular, easily-built patterns. Naturally there are many other variations. By finishing such walls with portland cement paint in any of a wide assortment of beautiful colors builders can put extra sales appeal in concrete masonry buildings.



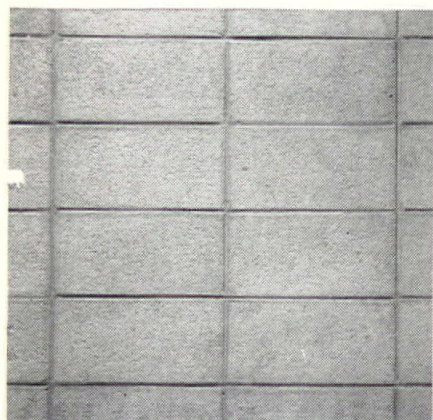
**RUNNING BOND.** Probably the most widely used pattern of all. Stagger the block in alternate courses so that vertical joints are aligned in every other course. Tool all joints.



**ALTERNATE RUNNING BOND.** Alternate 8-in. and 4-in. courses, tooling all joints, to produce this charming effect. For variation use 4-in. units every third or fourth course.



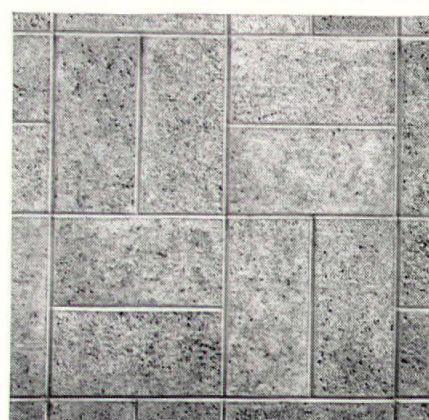
**HORIZONTAL TOOLING.** Lay block in running bond pattern. Then compact all joints to make them watertight. Now refill vertical joints and strike them off flush with wall.



**HORIZONTAL STACKING.** For interior non-bearing walls this treatment is striking. Place the block in the normal manner but align all vertical and horizontal joints and tool them.



**VERTICAL STACKING.** Like horizontal stacking except that the block are laid on end. This unusual pattern creates illusion of greater height for interior non-bearing walls.



**BASKET WEAVE.** Laying 8x8x16-in. block in pairs, two vertically and two horizontally, and tooling all the joints results in this woven pattern for interior non-bearing walls.

**FREE NEW "Concrete Masonry Handbook" is available in U.S. and Canada. Send for your copy.**

## PORTLAND CEMENT ASSOCIATION

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## Representative Selection, San Antonio Chapter, AIA

**PROJECT:** NEW CAR SALES AND SERVICE FACILITIES  
JORDAN MOTOR COMPANY  
SAN ANTONIO, TEXAS

**ARCHITECT:** JERRY ROGERS, TSA-AIA, SAN ANTONIO

**CONTRACTORS:** F. A. NUNNELLY, SAN ANTONIO AND  
KUNZ & TRENKELBACH, SAN ANTONIO

### GENERAL

The building program involved complete new facilities for Jordan Motor Company, a Ford dealer serving San Antonio. Preliminary planning studies by the architect indicated the need for more property than originally acquired, so additional property was purchased and adjacent property leased for parking purposes. The property has a frontage of 170 feet, facing east, has a depth of over 500 feet terminating against the San Antonio River, and has a dead-end side street on the south for 300 feet.

### DESIGN PROBLEM

The operation of Jordan Motor Company involves storage and sales of new cars, a parts department, with retail sales and city delivery, full mechanical repair services, wash and grease services, and a paint and body shop. Used car sales are conducted from adjacent property and involve no buildings.

### DESIGN SOLUTION

The building program was in two stages, with the Paint and Body Shop, Car Storage Sheds, and Wash and Grease Racks built in Phase 1. These buildings were not begun until an overall site development plan was approved, so that the future main building could take its proper place in the overall scheme. The Paint and Body Shop was placed to the rear of the property, with the paint spray booth and bake oven against the river, where spraying would be as far as possible from other operations.

The scheme for the main building utilizes the main street frontage for the showroom, visual display of the retail parts sales counter, and a covered service drive for customers. San Antonio's mild climate made possible use of an open-type service operation, and vehicular entrance is through a fifty foot wide roofed service drive, with room for three lanes of traffic and 90-degree parking along the north side. Customers are received under this roof, orders taken, and estimates

given, and the cars then parked in numbered stalls to await their turn in the various shop departments. A dispatcher system is used to control the flow of work. New car deliveries are also made under this roof. The retail parts sales counter, cashier, shop superintendent, and dispatcher are all in areas opening to this service drive.

The showroom is entered from a walk off the main street, from the side street, or from the service drive. A lounge, with adjacent public toilets, is between the retail parts sales area and the showroom. Administrative and clerical offices are behind the showroom, but screened by a curved pierced brick screen wall, the rough texture of the wall forming a contrasting background for the showing of the new cars. "Closing offices," for settling final details of sales, open off a

corridor on the south through which new cars are brought for display.

The Parts Department is two stories in height. The second floor covers the entire area back of the showroom. Deliveries are made to a hydraulic freight elevator, with a street side door at truck bed height. The elevator can then deliver material down to the first floor level or up to the second floor, for unpacking and storage.

A small part of the second floor is occupied by the president's office, additional administrative offices, and a large sales meeting room. Air conditioning, a vault, and record storage are provided in a basement below the first floor clerical space.

The open type main Service Shop is located behind the Parts Department and has a total of 40 working stalls provided in the entire facility. Stalls are closed by overhead doors. Total floor area under cover is approximately 50,000 square feet, and parking is provided for over 300 cars.

### CONSTRUCTION AND FINISH

The property is located in the No. 1 Fire Zone, dictating fireproof construction. A concrete frame on drilled pier footings was selected as the most economical solution. Floors other than shop floors are suspended pan slab.

(Continued on Page 12)

## San Antonio Chapter Selection



The new facilities of the Jordan Motor Company, in San Antonio, have been selected by the San Antonio Chapter, AIA, as representative of recent work by Chapter members in the area. Architect: Jerry Rogers, TSA-AIA, San Antonio. Shown is an exterior view of the Front Door opens to service drive.



# Huge Plant Uses Only Rainwater Stored In Man-Made Lagoons

Can you build a \$2,300,000 metal fabricating plant which uses no water? Texas architects, concerned by the drastic need for water conservation which continues in many parts of the state in spite of heavy spring rains, are interested in a 220,000 square-foot plant going up near Chicago that will do the next best thing. The new plant will draw all water needed for air conditioning and industrial purposes from two man-made lagoons. The lagoons will store rainwater collected from 10 acres of roof and parking area.

The plant is being constructed near Bensenville, Ill., about 15 miles northwest of Chicago's Loop, by Flick-Reedy Corporation, producer of industrial air and hydraulic cylinders.

It will be the first manufacturing

plant to go up in the northwest corner of Du Page County in the past 20 years. The zoning of the 96-acre tract to industrial use by authorities of the county, which has been largely agricultural and residential, represents the reversal of a trend and the beginning of an overall development plan.

## WATER SUPPLY CRITICAL

Before the county could accept the facility as a model of the type of industry it hopes to attract in its planned development, both company and county had to grapple with a problem which is becoming increasingly important—water.

Du Page County authorities, once committed to an overall industrial expansion program, were anxious to avoid the consequences of an ill-planned development—falling water tables, poor drainage and consequent flooding, and the overtaxing of existing water producing and sewerage facilities.

While the company was willing and anxious to make its plant site a model of water conservation by providing proper drainage and water carry-off facilities, it did not want to depend completely for its water on the nearest source of supply, the village of Bensenville, about a mile away.

Lagoons and a completely "internal" water system comprised the unique solution hit upon by the company. The system will provide up to 18,000 gallons of water per hour at a

cost estimated at approximately 1/2 cent per thousand gallons.

As finally evolved, the overflow of the two reservoir lagoons was tied to a third sanitary system lagoon resulting in a complete internal water supply and sanitation system.

## HOW IT WORKS

Here's how the system works:

Rainfall draining off the five-acre parking lot, and the five-acre roof area, is collected in the two reservoir lagoons, each of which is 75 feet wide, 600 feet long, and five feet deep. Maximum capacity is 1,800,000 gallons per lagoon.

Each inch of rainfall results in a potential 10 inch rise in the lakes—or 280,000 gallons of water. Since rainwater is the softest available, no treatment is needed before use.

Water drawn from the reservoir lagoons for "clean" operations like cooling and heat treating is merely returned to the lagoon from which it is drawn.

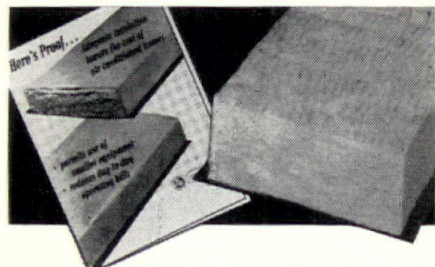
Water used in such operations as ferric oxide plating will be delivered and carried away in special pipe circuits, but not returned immediately to the reservoir lagoons.

## HOLDING TANK USED

First this contaminated water moves to a holding tank where it stays for a period of time while sediment and heavy wastes fall to the bottom of the tank and where the water itself is chemically neutralized.

Next it goes to a small Yeoman aerator type sewerage unit similar to sewage treatment plants used in many small communities. After treatment it flows to the sanitary lagoon.

Water for drinking and other personnel use will be drawn from a deep well on the plant site, and its disposal will also be handled by the Yeoman unit.



SEND FOR: "Proof . . ." A new brochure on Insulating for Air Conditioning and sample of the new B-H 6" Batt. See, specify, install . . .

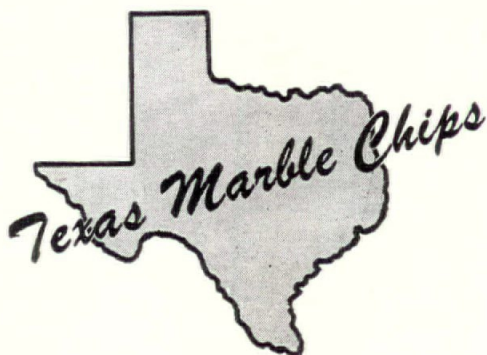
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## Architectural Tour Of Mexico Departs Laredo on October 6

TSA members will be among architects from a number of states participating in Gira Arquitectura, a 13-day tour and seminar in Mexico which begins October 6 from Laredo.

The 13-day tour, which includes visits to San Miguel Allende, Oaxaca, Mexico City, Cuernavaca and Taxco, is being conducted in cooperation with the Mexican Society of Architects according to the tour director, T. H. Hewitt of Houston.



# LIGHTING

## Part 6

**Editor's Note:** We continue a series on lighting by H. L. Logan, Vice President — Research, of the Holophane Company, Inc., 342 Madison Avenue, New York, N. Y.

The corrected result is given in Figure 9. The reflection factor of the ceiling was kept at 80%. The reflection factor of the window wall was raised 60%. The floor was raised to 30% and the desk tops to 40%. The result of this was to change the distribution throughout the field of view to bring it within the optimum range of the natural models.

Another feature changed. The average brightness of the first field of view would have been 19 footlamberts. The average brightness of the improved field of view, without adding a watt of energy, a lamp, fixture, more wiring or any cost to operation of the installation, was 30 footlamberts, or over 60% more. This increase was secured simply by the scientific control of the treatment of all the surfaces in the environment. This is the engineer's approach to the color problem. It is based upon the need of 3-D design of the field of view to give the most useful information to the occupant of the space by providing an approximation to an optimum natural lighting distribution.

The colors used are based upon the principle of INDIFFERENCE. There are three possible reactions to color. You like a color, or you don't like it, or you are emotionally neutral to it, i.e., indifferent.

### PLOCHERE SYSTEM USED

The 1500 colors of the Plochere system, which go all through the color solid, were judged by a variety of people over a period of some years. First, they picked out the colors they liked; then the colors they didn't like. The colors they left behind were recorded. That went on until there was a, so-to-speak, hard core of colors left that people neither liked nor disliked.

Those colors are ideal for the manipulation of background brightnesses by engineers. People won't walk into a place so finished and exclaim, "It's wonderful!" Nor will they pull their noses and say, "Phfu! I don't like it!" They won't say anything. That is as it should be in working interiors. An environment has been provided that doesn't punish the workers in any way, and is simply pleasant.

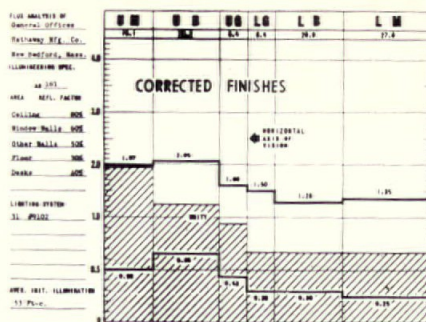


FIGURE 9

When an environment is designed that attracts attention to the "envelope" instead of to the critical details

of the work, it is, to some degree, demanding the use of energy by the observer. To some degree it is controlling, or "push-buttoning" him.

### THE IDEAL ENVIRONMENT

The ideal work environment is one that protects the observer, but does nothing else to him. If stimulation or excitement is wanted, such as in a nightclub, the situation is different; and emotionally neutral color treatment is not the answer: but working interiors are better designed so that they do not impose on the involuntary responses of

(Continued on page 7)

## CONCRETE

Texas Stressed Concrete saves valuable production time, cuts high construction costs, and, at the same time, offers the versatility to fulfill any building requirement. Prestressed concrete allows longer spans, shallower depths, less dead load, greater live-load-carrying capacity, with freedom from cracks. Precasting, in hand with prestressing, has altered the concrete cost picture substantially enough to become an increasingly preferred method of construction.

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### 300 Attend Dallas Dinner Meeting

Dallas and Fort Worth TSA members and representatives of the flooring industry attended a recent Producers' Council meeting at the Baker Hotel in Dallas at which J. O. Heppes, vice-president and general manager of Azrock, was guest speaker.

Left to right are W. K. Clark, sales

manager for Azrock; J. O. Heppes, vice-president and general manager of Azrock who was guest speaker of the evening; R. J. Perry, TSA-AIA of Dallas, liaison representative to the Producers' Council; Clyde R. Hueppelsheuser, TSA-AIA of Fort Worth, Chapter vice-president; and G. G. Gables, vice-president of Dallas Producers' Council.

### J. E. Bourland of Dallas Named Southwest Agent For Enamel Products

Davidson Enamel Products, Inc. of Lima, Ohio, announces the appointment of J. E. Bourland of Dallas as distributor of architectural porcelain in the Texas, Oklahoma, and New Mexico area. Born in Pittsburgh, Texas, Mr. Bourland was educated at SMU's School of Engineering, Texas A & M, the University of Iowa, and A. A. Morgan's School of Management. Mr. Bourland was previously with the Grand Prairie office of North American Aviation, and Texlite, Inc., where he was vice president in charge of all manufacturing.

#### REELECTED IN 1956

Elected vice president and member of the Porcelain Enamel Institute's Executive Committee, Washington, D. C. in 1953, Mr. Bourland was re-elected in 1956 to serve during 1957. He has also served two terms as chairman of the Architectural Products Division of the Porcelain Enamel Institute.



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# Study of Cost-Profit Squeeze At Conference on Standards

How to beat the cost-profit squeeze now harassing business and industry will be the subject of the Eighth National Conference on Standards to be held in San Francisco, November 13, 14, 15.

## New Definition of Air Conditioning Adds "Simultaneously"

The American Society of Heating and Air Conditioning Engineers have added the important word "simultaneously" to the official Society definition of air conditioning, emphasizing the broad control of temperature, humidity, cleanliness, and distribution involved in the modern technical understanding of the term.

The new definition recommended by the Society follows:

"Air conditioning is the process of treating air so as to control simultaneously its temperature, humidity, cleanliness, and distribution to meet the requirements of the conditioned space."

## LIGHTING —

(Continued from page 5)

the occupants, but merely act as a protection against ranges of stimuli that are outside their optimum range of adaptation.

There is one exception to this—SAFETY CODE colors. They should be striking and attention-getting. The Bureau of Standards has worked out a code of safety colors for national industrial use, and if every one adopts them, and uses these colors for this purpose only, an automatic conditioning will be built up in workers, causing them to make the proper involuntary response to a hazard, so that they will enjoy maximum safety.

The final group of colors arrived at for work interior backgrounds, for which the average person does not seem to have a marked emotional reaction, cannot be reproduced here, but they are commercially available, along with color charts showing what they are; and checking the colors chosen against these color charts is one of the steps in the evaluation of artificial lighting fields of view.

The following article will discuss the direct glare aspect of visual comfort.

The conference, held for the first time on the West Coast, will meet in conjunction with the thirty-ninth annual meeting of the American Standards Association, sponsor of the conference. A number of architects from over the U.S., anxious to study possible means of lowering costs for their clients, will attend the sessions.


H. Thomas Hallowell, Jr., Jenkintown, Pa., president, American Standards Association, will open the three-day meeting with an address in support of the conference theme, "Stand-

ards Key to Progress and Profits." Other leaders in industry, government and business, including a number of western industrial figures, will speak.

## RADIATION STUDIES INCLUDED

Sessions will cover radiation exposure, electronics, industrial preparedness, motion pictures and television, purchasing, company standards and technical communications.

The thirty-ninth annual meeting of the ASA opens the conference on November 13. At this session, the principles of the American Standards Association as the national voluntary standards body will be under review. The year's accomplishments by the Association will be reported by officers.



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**JEFF JOHNSON**

JEFF HAS GIVEN T.E. SKALEY, DIRECTOR OF THE FIRE RAVAGED OLD FOLKS HOME, A BLISTERING TONGUE LASHING FOR HIS FAILURE TO PROVIDE PROPER FIRE PROTECTION IN HIS BUILDING, AN ACT WHICH COST EIGHT PEOPLE THEIR LIVES. IT IS SOME WEEKS LATER....

JEFF, THIS ARTICLE IN THE PAPER  
SAYS SEVERAL ORGANIZATIONS  
ARE GOING TO BACK THAT SKALEY  
IN BUILDING A NEW OLD FOLKS  
HOME. I THINK THAT'S  
DISGRACEFUL!

PERSONALLY, I'M HAPPY TO  
SEE IT— HE'S THE BEST MAN IN  
THIS AREA FOR THE JOB. ANN!

WHY, HOW CAN YOU  
SAY THAT? SURELY  
NOT AFTER....

HE DIDN'T PROVIDE FIRE CONSTRUCTION—TRUE—BUT THAT WAS IGNORANCE, NOT MALICE! BUT HE'S AN ADMINISTRATOR, NOT AN ARCHITECT! HE REALIZES HIS LIMITATIONS NOW!

## HOW CAN YOU BE SURE?

I'VE HAD  
SEVERAL LONG  
TALKS WITH  
HIM SINCE THE  
DAY OF THE FIRE!  
HE WANTS TO MAKE  
RECOMPENSE FOR  
HIS ERROR!

HOW? HE CAN'T  
BRING THOSE  
EIGHT PEOPLE  
BACK!

NO, BUT HE  
CAN USE  
HIMSELF AS  
AN EXAMPLE  
TO PREVENT  
OTHERS FROM  
! HE'S PLANNING  
A TOUR FOR  
PREVENTION!

HE CAME BY HERE WANTING  
INFORMATION ON WHAT THE  
ARCHITECT DOES TO PREVENT  
OR CONTROL FIRES....I'M  
PREPARING THOSE POSTERS  
FOR HIM NOW!

THEY ARE A LIST  
OF SAFETY  
MEASURES!

THE OBJECT IS TO CONFINE ANY  
FIRE TO THE AREA OF ITS ORIGIN  
SO THAT PEOPLE CAN BE EVACUATED  
AND THE FIRE CAN BE EXTINGUISHED  
QUICKLY AND EASILY!

WHAT DOES SKALEY  
THINK OF THESE?

HE SUGGESTED  
TO THE BUILDING  
COMMITTEE OF  
THE NEW REST  
HOME THAT I DESIGN  
THE BUILDING AND I  
HAVE BEEN AWARDED  
THE JOB!

OH, JEFF, THAT'S  
WONDERFUL!

WOW! THAT  
EXPRESSION IS WORTH  
A STEAK DINNER ANY  
DAY! LET'S GO  
CELEBRATE!

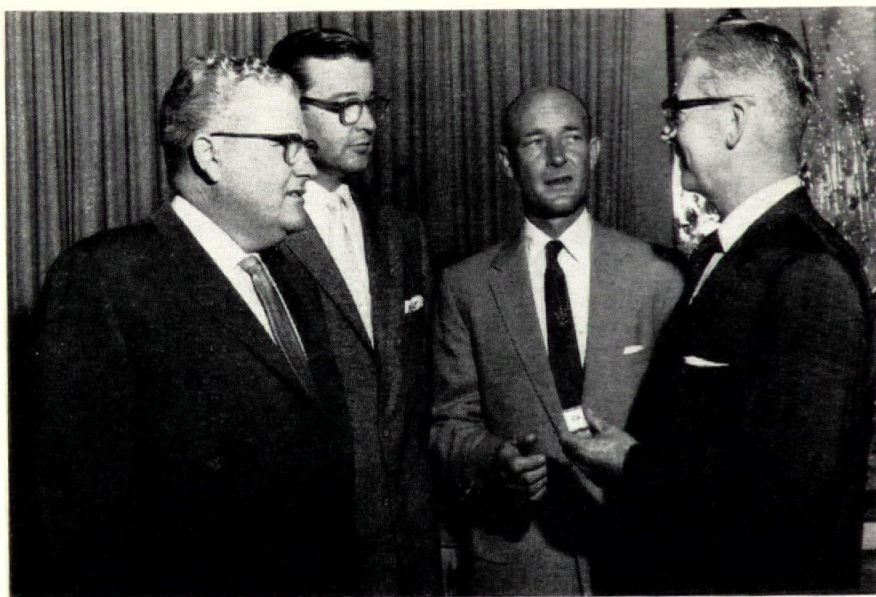


## Electrician Honored At Ninth Annual Award Dinner in Fort Worth

L. B. Bounds, Jr., Fort Worth electrician, was honored May 28 at the Rivercrest Country Club in Fort Worth as members of the Fort Worth Chapter, AIA, staged their ninth annual Craftsmanship Award Dinner.

Fred J. MacKie, Jr., TSA-FAIA of Houston, president of the Texas Society of Architects, presented a diamond-studded gold pin emblematic of the craftsmanship award to Mr. Bounds while members of his family looked on.

R. Max Brooks, TSA-FAIA of Austin, regional AIA director, spoke on the importance of craftsmanship and the key role of the skilled individual worker. Hubert H. Crane, TSA-AIA of Fort Worth, traced the history of nine consecutive craftsmanship awards by the Fort Worth Chapter. He pointed out that each of the nine recipients has not only been a fine craftsman generally acknowledged by his employers and fellow workers, but has also been an outstanding citizen and individual.



### Fort Worth Craftsmanship Award

Fred J. MacKie, Jr., TSA-FAIA of Houston, president of the Texas Society of Architects (far right), presents a diamond-studded gold craftsmanship award to L. B. Bounds, Jr., Fort Worth electrician, at the ninth annual Craftsmanship Award Dinner of the Fort Worth Chapter. Left to right: R. Max Brooks, TSA-FAIA of Austin, recently installed as regional director of the AIA; Preston Geren, Jr., president, Fort Worth Chapter; Mr. Bounds, and Mr. MacKie.

The award dinner was held at the Rivercrest Country Club in Fort Worth, with about 40 architects and their wives, contractors, owners of buildings on which Mr. Bounds has worked, members of the Bounds family, representatives of the Associated General Contractors, and members of the press present.

(See President's Letter, this issue.)

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## Calcium Chloride Lauded

### As Economy Measure In Masonry Construction

H. V. Appen, vice president of the J. A. Jones Construction Company, Nashville, Tenn., commented on the use of calcium chloride "as an economy measure" for concrete masonry construction at the Quality Concrete Conference held at the School of Engineering, Vanderbilt University, Nashville.

Mr. Appen's paper "Concrete Masonry Construction on the Job," was part of a Concrete Masonry Construction Panel during which the engineers, contractors, producers and users of concrete masonry aired their views on the subject.

In his comments on the use of calcium chloride Mr. Appen said, "The use of calcium chloride is always the subject of much discussion. Some engineers allow it in cold weather; some definitely prohibit it under any conditions and still others demand its use in cold weather.

"Our experience definitely advocates the use of calcium chloride in all but extremely hot weather. We feel it is very necessary in cold weather for the initial-set time is definitely reduced, probably by 50 percent.

#### FAVORABLE FOR HYDRATION

"Old Man Economics" raises his head, for if any of you have watched and waited for concrete to set and be ready for finish in the middle of the night with smoking salamanders under tarpaulins and 10 degrees F. or less outside and your concrete costs soaring — you wished someone had a heart and let you use calcium chloride.

"It has been definitely shown that calcium chloride's use will establish favorable conditions for hydration during the setting and hardening period of concrete despite adverse conditions of low humidity or low temperatures.

"Manufacturers' laboratories claim final set is reduced from six hours to two hours. Early strength of calcium chloride concrete is as great in one day as plain concrete in two days, but few listen. Even the ultimate strength of concrete with calcium chloride increases as much as 10 percent in five years over plain concrete. We advocate use of calcium chloride universally, winter or summer, as an economy measure."

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### Poland Sees U.S. Architecture In Show Behind Iron Curtain

Now being shown at Warsaw's Palace of Culture and Science is an exhibit of American architecture, the first of its kind in more than a decade. The show, titled "Built in the U.S.A.", was assembled by the Museum of Modern Art of New York City, and is sponsored during its three-month tour of Polish cities by the United States Embassy in Warsaw and the Association of Polish Architects.

At ceremonies opening the show earlier this month, addresses were made by the U. S. Ambassador to Poland, Joseph E. Jacobs, and by Jerzy Hryniewicz, president of the Association of Polish Architects. Among the works in the show are those by Walter Gropius, of Cambridge, Mass.; Ludwig Mies van der Rohe, of Chicago; Frank Lloyd Wright, of Spring Green, Wis.; and Eero Saarinen, of Bloomfield Hills, Mich.

#### POST-WAR PERIOD

The show, consisting of photographic enlargements and three dimension color slides, is devoted to American architecture of the post-war period. After Warsaw, the exhibition will be on display in Krakow, Gdansk and Poznan.

An article in Trybuna Ludu, daily organ of the Polish United Workers Party, said "The exhibit of American architecture undoubtedly represents an inspiration for many of our architects and builders faced at this time with important problems. It is therefore good that we may examine the accomplishments of American architects.

"Following the visit to the United States of a Polish building delegation towards the end of last year, the participation of American architects in a competition of the Association of Polish architects, and the opening of the exhibit in the Palace of Culture and Science are further steps towards strengthening cultural exchange between Poland and the U.S.A."

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# Non-Residential Building Off 20% on April Totals

Contracts for future construction in the United States in April totalled \$2,776,431,000, a decline of nine percent compared to April, 1956, according to F. W. Dodge Corporation, construction news and marketing specialists. The April decline offset a large increase in March and, as a result, the cumulative total for the first four months of 1957 amounting to \$10,314,991,000, showed no change from the comparable period of 1956.

Contracts for non-residential building, which were a major source of strength during the first three months of this year, amounted to \$838,065,000 in April, down 20 percent from the corresponding month a year earlier. Nearly all components of the non-residential category shared in the decline with the largest decreases taking place in the manufacturing and public building segments. For the first four months of this year, non-residential contracts totalled \$3,664,712,000,

about equal to the comparable period of 1956.

Contracts for residential building in April were valued at \$1,231,667,000, eight percent below the year-earlier level. For the first four months of 1957, residential construction contracts amounted to \$4,031,007,000, down six percent from the comparable period last year. The number of housing units represented by the April, 1957 contracts totalled 93,758, which was 14 percent below the April 1956 level.

The dollar value of heavy engineering contracts in April was \$706,699,000, an increase of eight percent over April 1956. A substantial rise in the utilities category more than offset a small decline in contracts for public works construction. Heavy engineering contracts, from January through April, were valued at \$2,619,272,000, up 12 percent over the comparable period last year.

## 1957 Edition of Heating, Air Conditioning Guide Is Now Available

The Heating, Ventilating and Air Conditioning Guide 1957, 35th edition published by the American Society of Heating and Air-Conditioning Engineers, is now available.

THE GUIDE 1957 has an enlarged Technical Data Section of over 1250 pages, representing an increase of more than 70 pages to accommodate new and revised information. The Catalog Data Section also has been expanded, including reference material of 337 manufacturers.

There are 115 new illustrations and many new tables in THE GUIDE 1957. Other outstanding improvements: (1) a rewritten chapter, with new charts and tables, covering methods of applying sound control principles and a typical example of their use; (2) a new presentation for the design of hot water heating systems; (3) a step-by-step procedure for designing ceiling and floor heating panels; (4) addition of simplified design data for forced warm air systems; (5) greater detail in descrip-

(Continued on Page 12)

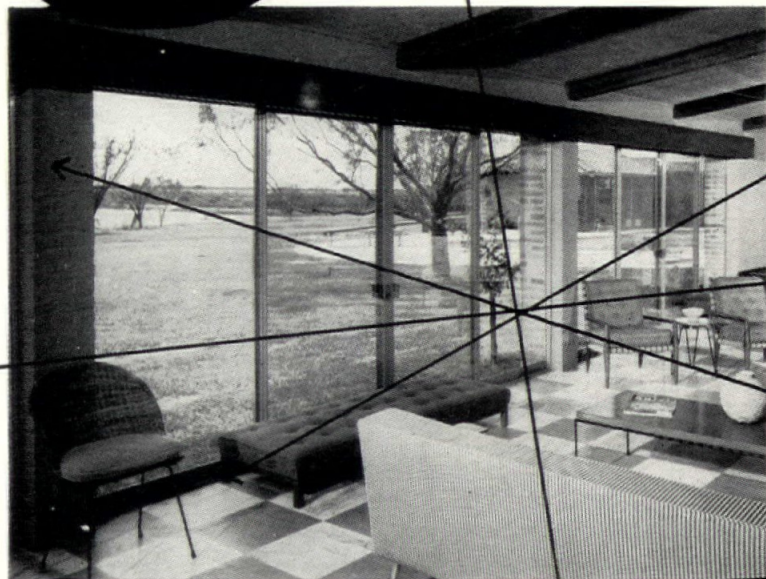
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# NEW PRODUCTS

A third cork hue, K-550, Tangiers, has recently been added to the Azrock asphalt tile line.

The new color now gives Azrock three shades in natural cork hues — light, medium, and dark — all available in 1/8" thickness. This addition brings the Azrock asphalt line up to 34 numbers.

As with other Azrock Floor Products, the new number is pre-waxed and pre-polished at the factory. Azrock Cork Hues can be installed on, above or below grade on concrete sub-floors, or over sound, smooth wood sub-floors. They're recommended primarily for residential areas such as dens or family play rooms. They can also be used in schools, hospitals and public institutions where easy installations and very low original cost are required; and in light traffic areas in stores, offices or transportation terminals.

☆☆☆

A contract has been signed between the Hotel Corporation of America and

Jerrold Electronics Corporation for the installation of a complete "video and radio communication system" at the Hotel Roosevelt, New York.

A unique feature of the installation will be a communications system for maid or maintenance service. A tiny transistor-powered microphone and speaker unit will be carried by the hotel's service personnel. When an employee enters a guest room to work, the microphone unit can be plugged into a special jack on the radio receiver. Contact with his or her supervisor can be instantaneously effected from any room within the hotel; thus, the supervisors will keep in constant contact with all of their employees.

☆☆☆

The Remcon Division of Pyramid Instrument Corporation has announced the addition of a new concept in switching to its low voltage line . . . a unique type of Master Control.

Only 7 1/2 inches long and 3 1/2 inches wide, the new Master contains eight push-type silent switches . . . each with definite on-off positions. Since these switches can be operated individually, the homeowner can control lights in any or all of eight different rooms.

A center of ninth switch of the same type, controls the other eight simultaneously making it possible to control all eight lights at once with the touch of a single switch.

The switches, made of phosphorescent material which glows in the dark, are individually numbered and color-coded to provide instant daytime or nighttime identification of the eight remote lights controlled by the Master.

A new vapor-seal roof slab is being marketed by The Celotex Corporation.

Identified as Celotex Vapor-Seal Insulating Roof Slab, this new product provides positive protection by employing a vapor seal at joints as well as a built-in asphalt membrane vapor barrier, the company reported.

Effecting the new vapor seal is a rubber gasket inset permanently along the long tongue edge and continued across one short edge of the slab. This unique feature provides a roof deck construction in which all four edges of

the roof slabs are sealed by the gaskets.

Celotex Insulating Roof Slabs are designed to permit better and more economical roof construction for today's low, modern structures with exposed beam ceilings. An all-in-one product, it provides structural roof deck, efficient insulation, and an attractive finished ceiling.

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Room air conditioners with a decorator fabric front that may be replaced to match any decor, wall-thin models only 15 1/2 inches deep and 17 inches high, and two one hp. units that operate on 115-volt lines, highlighted the 1957 air conditioners introduced recently by Amana Refrigeration, Inc.

At the same time Amana presented three Deepfreeze chest freezers, marking the return of the Deepfreeze name to the market after an absence of nine months. Amana acquired Deepfreeze in May.

☆☆☆

## COVER STORY

(Continued from Page 3)

Spans were generally held to approximately 30 feet. The glass expanse of the showroom is protected by a 7-foot overhang cantilevered from the roof beams, while the glass of the retail parts display area is sheltered by recessing it under the second floor.

The concrete frame is left exposed with filler walls of cavity construction, face brick exterior and clay tile interior.

Showroom floors are terrazzo, with floors rubber tile. Interior wall finishes are plaster, exposed brick, birch plywood, and fabrics. The Showroom Ceiling is acoustic plaster with office ceilings fireproof acoustic tile. The showroom columns are round, set behind and clear of the plate glass, and covered with glass mosaic tile.

## GUIDE

(Continued from Page 11)

tion, illustrations and design of various types of steam heating systems; (6) new tables, charts, and application instructions for pipe and industrial insulation; (7) extended text and diagrams for district heating; (8) extension of refrigerant data and information on lithium bromide equipment; (9) enlarged discussion of corrosion causes and prevention; (10) the reference list of existing codes and standards has been carefully and fully revised.



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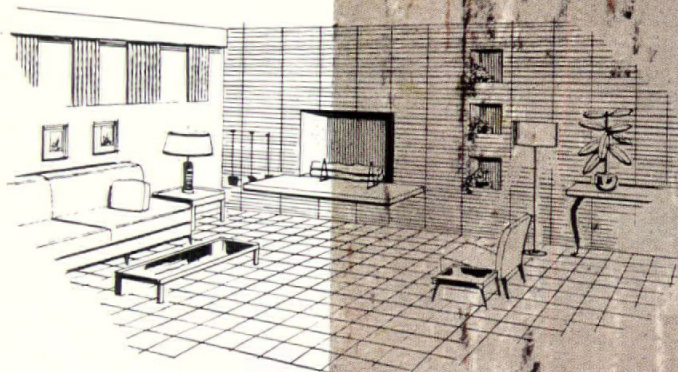
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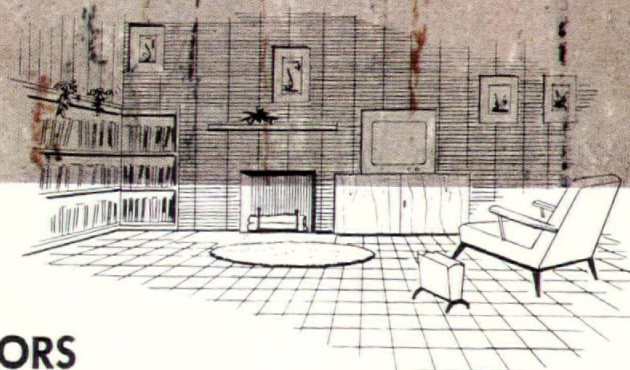




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